

TWO-STAGE PUMP WITH HIGH HEAD AND LOW DELIVERY

ABSTRACT

Pump comprising a body (10), an actuating shaft 5 (1) on which at least a first impeller (21a) and a second impeller (21b) are coaxially mounted, each being housed in a respective front chamber (15a) and rear chamber (15b) respectively connected to a fluid intake duct (11) and a fluid delivery duct (13), in which said 10 front chamber (15a) is delimited by said body (10) and by an interstage body (16), said rear chamber (15b) is delimited by said interstage body (16) and by a shield (23), said interstage body has two volutes (22a, 22b) respectively associated with the corresponding first 15 impeller (21a) and second impeller (21b), a first discharge orifice (16a) connecting the volute (22a) of the first impeller (21a) to the exterior, a second discharge orifice (16c) connecting the volute (22b) of the second impeller (21b) to the delivery duct (13), 20 inside said body (10) there being formed a channel (17) for the throughflow of the fluid from said first chamber (15a) to the means for supplying the fluid to the second impeller (21b).